BRUHATH BENGALURU MAHANAGARA PALIKE

BYTARAYANAPURA DIVISION, BANGALORE

EMB

1st & Final Bill

Name of Work: - Construction of RCC Culverts at Right Side Cross Roads of 1st Main Road Kuvempu Nagara in Ward No.05

Estimated Cost:- 78.00 Lakhs

Job Code: - 005-20-000083

Work Order: - BBMP/EE/BTP/WO/245/19-20, Dated: 21.03.2020

AS No: - EE(BTP)/AS/111/19-20, Dated:-16.03.2020

TS No: - SE(YNK)/TS/50/19-20, Dated: - 16.03.2020

Name of the Contractor: - M/s KRIDL

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BRUHATH BANGALORE MAHANAGARAPALIKE

YELAHANKA ZONE

1ST AND FINAL BILL

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Item No	Description of Item	No	L	B	D1	D2	D(avg)	Unit	Qty	Rate in Rs	Amount
1	Earthwork excavation by manual means for roads, drains & similar works in ordinary soil invoiving , excavated surface leveled & sides neatly dressed , the disposed earth to be levelled neatly after breaking of clods complete as per specification										
	Qty Taken from Pre measurement page Item No. 1 page No. 1 & 2							Cum	954.27	207.60	198106.45
2	Providing and laying in position plain cement concrete of mix 1:3:6 with OPC cement @ 220kgs, with 20mm and down size graded granite metal coarse aggregates @0.84cum and fine aggregtes @ 0.56cum, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation, plinth and cills, ncluding cost of all materials, labour, HOM of machinery, curing complete as per specifications.										
	Qty Taken from Pre measurement page Item No. 2 Page No. 2 to 4							Cum	142.49	5509.33	785004.68
3	Providing and laying plain/reinforced cement concrete for side drains using M20 nominal mix concrete with OPC at 300 kgs. with 20mm and down size granite metal coarse aggregates at 0.69 cum and fine aggregates at 0.43 cum machine mixed, well compacted for walls and bottom including centering, shuttering, cost of materials, HOM of machinery, curing etc., complete excluding cost of steel as per MORTH specification No. 1500, 1700, 2200. including cost of materials, labour, HOM complete as per specificationsdo- Wall & bottom thickness 15cm										
	For Raft Concrete										
	For RCC Drain										
	Sapthagiri Layout										
	Cross Road-1										
	RHS										
		1	28.20	0.90	0.15	0.16	0.16		3.93		
		1	27.80	0.95	0.16	0.14	0.15		3.96		
		1	15.30	0.90	0.14	0.16	0.15		2.07		
	LHS										
		1	9.00	0.90	0.15	0.15	0.15		1.22		
		1	30.00	0.95	0.15	0.16	0.16		4.42		
		1	30.00	0.95	0.16	0.14	0.15		4.28		
		1	10.50	0.90	0.15	0.16	0.16		1.46		
	Cross Road-2										
	RHS										
		1	9.00	0.90	0.15	0.16	0.16		1.26		
		1	30.00	0.95	0.16	0.14	0.15		4.28		
		1	16.10	0.90	0.14	0.16	0.15		2.17		
		1	18.00	0.90	0.16	0.15	0.16		2.51		
	LHS										
		1	30.00	0.95	0.15	0.15	0.15		4.28		
		1	30.00	0.90	0.15	0.16	0.16		4.19		
		1	4.50	0.90	0.16	0.14	0.15		0.61		
		1	18.00	0.90	0.14	0.16	0.15		2.43		
	Cross Road-3										
	RHS										
		1	30.00	0.90	0.15	0.15	0.15		4.05		
		1	30.00	0.95	0.15	0.16	0.16		4.42		
		1	4.00	0.90	0.16	0.14	0.15		0.54		

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LHS								
	2	50.00	0.95	0.15	0.15	0.15	4.28	
	2	50.00	0.90	0.15	0.17	0.16	4.32	
	2	4.00	0.90	0.17	0.14	0.16	0.56	
Cross Road-4								
RHS								
	2	30.00	0.90	0.15	0.15	0.15	4.05	
	2	50.00	0.90	0.15	0.16	0.16	4.19	
	2	26.50	0.90	0.16	0.14	0.15	3.58	
LHS								
	2	50.00	0.90	0.15	0.15	0.15	4.05	
	2	30.20	0.95	0.15	0.15	0.15	4.28	
	2	4.50	0.90	0.15	0.16	0.16	0.63	
Cross Road-5								
RHS								
	1	4.60	0.90	0.15	0.15	0.15	0.62	
	1	17.80	0.95	0.15	0.16	0.16	2.62	
	1	17.00	0.95	0.16	0.14	0.15	2.42	
	1	21.60	0.95	0.14	0.15	0.15	2.98	
	1	27.50	0.90	0.15	0.15	0.15	3.71	
LHS								
	1	30.00	0.95	0.15	0.15	0.15	4.28	
	1	30.00	0.95	0.15	0.15	0.15	4.28	
	1	10.30	0.90	0.15	0.15	0.15	1.39	
	1	13.00	0.90	0.15	0.15	0.15	1.76	
	1	23.50	0.95	0.15	0.15	0.15	3.35	
Kavempunagara 4th S Cross								
LHS								
	1	30.00	0.95	0.15	0.15	0.15	4.28	
	1	11.00	0.90	0.15	0.15	0.15	1.49	
For RCC Culvert								
Sapthagiri Layout								
For Culvert Bed Concrete								
Cross Road -1, Culvert - 1	1	6.20	1.50	0.20	0.20	0.20	1.86	
Cross Road -1, Culvert - 2	1	6.20	1.50	0.20	0.20	0.20	1.86	
Cross Road -2, Culvert - 3	1	6.80	1.50	0.20	0.20	0.20	2.04	
Cross Road -3, Culvert - 4	1	6.00	1.50	0.20	0.20	0.20	1.80	
For Side Wall								
For RCC Drain								
Sapthagiri Layout								
Cross Road-1								
RHS								
	2	28.20	0.15	0.68	0.72	0.70	5.92	
	2	27.80	0.15	0.72	0.70	0.71	5.92	
	2	15.30	0.15	0.70	0.68	0.69	3.17	
LHS								
	2	9.00	0.15	0.69	0.71	0.70	1.89	
	2	30.00	0.15	0.71	0.67	0.69	6.21	
	2	30.00	0.15	0.67	0.73	0.70	6.30	
	2	10.50	0.15	0.70	0.70	0.70	2.21	
Cross Road-2								
RHS								
	2	9.00	0.15	0.66	0.74	0.70	1.89	
	2	30.00	0.15	0.74	0.68	0.71	6.39	
	2	16.10	0.15	0.68	0.72	0.70	3.38	
	2	18.00	0.15	0.72	0.66	0.69	3.73	
LHS								
	2	30.00	0.15	0.68	0.70	0.69	6.21	
	2	30.00	0.15	0.70	0.70	0.70	6.30	

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		2	4.50	0.15	0.70	0.68	0.69		0.93		
		2	18.00	0.15	0.68	0.72	0.70		3.78		
	Cross Road-3										
	RHS										
		2	30.00	0.15	0.68	0.70	0.69		6.21		
		2	30.00	0.15	0.70	0.72	0.71		6.39		
		2	4.00	0.15	0.72	0.68	0.70		0.84		
	LHS										
		2	30.00	0.15	0.66	0.72	0.69		6.21		
		2	30.00	0.15	0.72	0.70	0.71		6.39		
		2	4.00	0.15	0.70	0.70	0.70		0.84		
	Cross Road-4										
	RHS										
		2	30.00	0.15	0.67	0.73	0.70		6.30		
		2	30.00	0.15	0.73	0.69	0.71		6.39		
		2	26.50	0.15	0.69	0.69	0.69		5.49		
	LHS										
		2	30.00	0.15	0.68	0.72	0.70		6.30		
		2	30.00	0.15	0.72	0.68	0.70		6.30		
		2	4.50	0.15	0.70	0.66	0.68		0.92		
	Cross Road-5										
	RHS										
		2	4.60	0.15	0.67	0.73	0.70		0.97		
		2	17.80	0.15	0.73	0.67	0.70		3.74		
		2	17.00	0.15	0.65	0.75	0.70		3.57		
		2	21.60	0.15	0.70	0.70	0.70		4.54		
		2	27.50	0.15	0.69	0.67	0.68		5.61		
	LHS										
		2	30.00	0.15	0.68	0.72	0.70		6.30		
		2	30.00	0.15	0.72	0.70	0.71		6.39		
		2	10.30	0.15	0.70	0.70	0.70		2.16		
		2	13.00	0.15	0.70	0.68	0.69		2.69		
		2	23.50	0.15	0.68	0.70	0.69		4.86		
	Kuvempunagara 4th B Cross										
	LHS										
		2	30.00	0.15	0.69	0.71	0.70		6.30		
		2	11.00	0.15	0.68	0.70	0.69		2.28		
	For RCC Culvert										
	Sapthagiri Layout										
	For Side Wall										
	Cross Road -1, Culvert - 1	2	6.20	0.45	0.65	0.65	0.65		3.63		
	Cross Road -1, Culvert - 2	2	6.20	0.45	0.65	0.65	0.65		3.63		
	Cross Road -2, Culvert - 3	2	6.80	0.45	0.90	0.90	0.90		5.51		
	Cross Road -3, Culvert - 4	2	6.00	0.45	0.63	0.63	0.63		3.38		
	For RCC Culvert										
	Sapthagiri Layout										
	For Culvert Ramp										
	Cross Road -1, Culvert - 1	2	6.20	0.75	0.20	0.10	0.15		1.40		
	Cross Road -1, Culvert - 2	2	6.20	0.75	0.20	0.10	0.15		1.40		
	Cross Road -2, Culvert - 3	2	6.80	0.90	0.20	0.10	0.15		1.84		
	Cross Road -3, Culvert - 4	2	6.00	0.75	0.20	0.10	0.15		1.35		
							Present Qty=	**Cum**	317.00	7189.42	2279075.05

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Providing & M.S steel reinforcement for R.C.C. work including straightening cutting, bending, binding, placing in position lapping and / or welding wherever required, tying with binding wire including cost of binding wire complete as per instructions of engineer in charge. Payment will be made on the basis of actual weight of steel as measured and calculated at site before fixing. Rate shall be inclusive of all lifts, loads, unloads, hoisting, scaffolding, etc. complete as per direction of engineer in charge.

Qty taken from the measurement page item no 4 Page no 4 & 7 Total 11198

5 Providing and laying Precast R.C.C. cover slabs of 100 mm thick for drain in cement concrete 1:1:2 using graded granite jelly 20mm and down size with steel reinforcement and providing for joints of cement mortar including form work, lift charges curing and cutting finishes surface as true slope as per complete as per the directions of Engineer in charge. (Data Rate)

For R.C.C. Drain

Sapthagiri Layout

Cross Road-1

RHS

	1	22.25	0.30	2.32
	1	27.80	0.30	2.82
	1	15.30	0.30	1.62
LHS				
	1	0.00	0.30	0.12
	1	30.00	0.30	2.70
	1	30.00	0.30	2.70
	1	10.50	0.30	1.35

Cross Road-2

RHS

	1	0.00	0.30	0.12
	1	30.00	0.30	2.70
	1	16.10	0.30	1.74
	1	13.00	0.30	1.41
LHS				
	1	30.00	0.30	2.70
	1	30.00	0.30	2.70
	1	4.50	0.30	0.45
	1	13.00	0.30	1.41

Cross Road-3

RHS

	1	30.00	0.30	2.70
	1	30.00	0.30	2.70
	1	4.00	0.30	0.36
LHS				
	1	30.00	0.30	2.70
	1	30.00	0.30	2.70
	1	4.00	0.30	0.36

Cross Road-4

RHS

	1	30.00	0.30	2.70
	1	30.00	0.30	2.70
	1	26.50	0.30	2.39
LHS				
	1	30.00	0.30	2.70
	1	30.00	0.30	2.70
	1	4.50	0.30	0.45

Cross Road-5

RHS

	1	4.60	0.30	0.41
	1	17.30	0.30	1.56
	1	17.00	0.30	1.53
	1	21.65	0.30	1.94
	1	27.50	0.30	2.47
LHS				
	1	30.00	0.30	2.70
	1	30.00	0.30	2.70
	1	10.30	0.30	0.92
	1	13.00	0.30	1.17
	1	23.50	0.30	2.12

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	Kuvempunagara 4th B Cross											
	LHS											
		1	30.00	0.90					27.00			
		1	11.00	0.90					9.90			
	Missing Slabs	1	10.00	0.90					9.00			
								Present Qty=	**Sqm**	748.53	2337.00	1749314.61
6	Providing and fixing Precast RCC slab of 250mm thick for Culverts made of Plain/Reinforced Cement Concrete design mix M25 with OPC@340kgs,with 20mm and down size graded granite metal coarse aggregates @0.70cum and fine aggregates@0.47cum,with superplasticizer@3lts confirming to 189103-1999 Reaffirmed-2008,Open Foundation complete as per Drawing and Technical Specification including cost of all materials, labour,HOM curing,form works,scaffolding and centering complete as per specifications and pointing for ljoints 1:3 cement mortar including form work,lift charges,curing and concrete finished surfaces on both sides etc,complete and as per the directions of Engineer in-Charge. (Data Rate)											
	For RCC Culverts											
	Sapthagiri Layout											
	Cross Road -1, Culvert - 1	1	6.20	1.50					9.30			
	Cross Road -1, Culvert - 2	1	6.20	1.50					9.30			
	Cross Road -2, Culvert - 3	1	6.80	1.50					10.20			
	Cross Road -3, Culvert - 5	1	6.00	1.50					9.00			
								Present Qty=		37.80		
							Limited to Qty=	**Sqm**		35.22	5418.00	190821.96
											Total	6714601.78
											GST Charges 12%	805752.21
											KRIDL Charges 4%	268584.07
											Grand Total	7788938.07

Assistant Engineer
Assistant Executive Engineer
Vijayanarayanapura Sub-Division

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	Description of Item	No	L	B	D	Qty
	Distrubution Bars 10mm dia@.125mm c/c					
	0.62kg/mtr	1	19	86.50	0.62	1018.97
	Cross Road-4					
	LHS					
	Total length of drain = 64.50 Mtr					
	Main Bars 10mm dia@.125mm c/c					
	0.62kg/mtr	1	518	2.30	0.62	738.67
	Distrubution Bars 10mm dia@.125mm c/c					
	0.62kg/mtr	1	19	64.50	0.62	759.81
	Cross Road-5					
	RHS					
	Total length of drain = 88.50 Mtr					
	Main Bars 10mm dia@.125mm c/c					
	0.62kg/mtr	1	710	2.30	0.62	1012.46
	Distrubution Bars 10mm dia@.125mm c/c					
	0.62kg/mtr	1	19	88.50	0.62	1042.53
	Cross Road-5					
	LHS					
	Total length of drain = 106.80 Mtr					
	Main Bars 10mm dia@.125mm c/c					
	0.62kg/mtr	1	856	2.30	0.62	1220.66
	Distrubution Bars 10mm dia@.125mm c/c					
	0.62kg/mtr	1	19	106.80	0.62	1258.10
	Kuvempunagara 4th B Cross					
	LHS					
	Total length of drain = 41.00 Mtr					
	Main Bars 10mm dia@.125mm c/c					
	0.62kg/mtr	1	330	2.30	0.62	470.58
	Distrubution Bars 10mm dia@.125mm c/c					
	0.62kg/mtr	1	19	41.00	0.62	482.98
2	**For RCC Culvert**					
	Cross Road -1, Culvert - 2					
	Total length of Culvert = 6.20 Mtr					8004.76
	Main Bars 12mm dia@.125mm c/c, Double Mat					8004.76

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